Recombinant MIC25 protein (His tag)

Catalog Number	543487
Synonyms	Coiled-coil-helix cristae morphology protein 1; Coiled-coil-helix-coiled-coil-helix domain-containing protein 6
Species	Human
Expression System	E. coli
Accession	Q9BRQ6
Molecular Weight	Predictes a molecular mass of 19.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	86-235
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 86-235 aa (Q9BRQ6) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human MICOS complex subunit MIC25 (CHCHD6) fragment (aa 86-235) is a high-purity protein designed for studying mitochondrial cristae architecture and membrane contact sites. This fragment fully encompasses the functional CHCH domain, making it an ideal tool for domain-specific functional assays and interaction studies. MICOS complex subunit MIC25, encoded by the CHCHD6 gene, is an essential component of the mitochondrial inner membrane MICOS complex. This complex plays crucial roles in maintaining crista junctions, inner membrane architecture, and forming contact sites between mitochondrial membranes. The protein localizes to the mitochondrial inner membrane through lipid anchoring. The full-length protein's function in cristae morphology and membrane organization makes it significant for understanding mitochondrial structure and function in cellular energy production and apoptosis regulation.